

To: Wands, James[James.Wands@hdrinc.com]
Cc: John Connolly[jconnolly@anchorqea.com]; Willard Potter[otto@demaximis.com]; Rafael Canizares[RCanizares@moffattnichol.com]; Rooni Mathew[RMathew@moffattnichol.com]; Mike Barbara[mab.consulting@verizon.net]; Robert Law[rlaw@demaximis.com]; Basso, Ray[Basso.Ray@epa.gov]; Naranjo, Eugenia[Naranjo.Eugenia@epa.gov]; Vaughn, Stephanie[Vaughn.Stephannie@epa.gov]; Alyssa Thorvaldsen[athorvaldsen@anchorqea.com]; Peter Oates[poates@anchorqea.com]; Wen Ku[wku@anchorqea.com]
From: Peter Israelsson
Sent: Mon 9/23/2013 3:28:41 PM
Subject: RE: Lower Passaic River - 2378-TCDD surface mapping files

Yes, we will pull this together and pass along later today, and it will include a field identifying the source dataset information.

Peter

Peter H. Israelsson, PhD

ANCHOR QEA, LLC | www.anchorqea.com

Please consider the environment before printing this email.

This electronic message transmission contains information that may be confidential and/or privileged work product prepared in anticipation of litigation. The information is intended for the use of the individual or entity named above. If you are not the intended recipient, please be aware that any disclosure, copying distribution or use of the contents of this information is prohibited. If you have received this electronic transmission in error, please notify us by telephone at (617) 547-3830.

From: Wands, James [mailto:James.Wands@hdrinc.com]
Sent: Monday, September 23, 2013 11:18 AM
To: Peter Israelsson
Cc: John Connolly; Willard Potter; Rafael Canizares; Rooni Mathew; Mike Barbara; Robert Law; Ray Basso; Eugenia Naranjo; Stephanie Vaughn; Alyssa Thorvaldsen; Peter Oates; Wen Ku
Subject: RE: Lower Passaic River - 2378-TCDD surface mapping files

Peter,

Thanks for sending those files. Would it be possible to also send the two data shape files (1995 Dataset and 2010 Dataset) presented in the memo? Do the shape files of the data include a field identifying the source dataset that they came from?

Thanks,

James

From: Peter Israelsson [<mailto:pisraelsson@anchoragea.com>]

Sent: Friday, September 20, 2013 3:29 PM

To: Wands, James

Cc: John Connolly; Willard Potter; Rafael Canizares; Rooni Mathew; Mike Barbara; Robert Law; Ray Basso; Eugenia Naranjo; Stephanie Vaughn; Alyssa Thorvaldsen; Peter Oates; Wen Ku

Subject: RE: Lower Passaic River - 2378-TCDD surface mapping files

James —

Please use the attached version of the probability distribution plot instead of the one transmitted earlier today. The previous version was missing two data points at the upstream end of the 1995 dataset's longitudinal range. The revised plot includes one additional sample from the 1995 dataset (in Group 1) and another from the 2010 dataset (in Group 4), both near RM 6.85. The differences to the distributions are small but it impacts the data counts, so I am retransmitting. Sorry about the mix-up.

Regards,

Peter

Peter H. Israelsson, PhD

ANCHOR QEA, LLC | www.anchoragea.com

Please consider the environment before printing this email.

This electronic message transmission contains information that may be confidential and/or privileged work product prepared in anticipation of litigation. The information is intended for the use of the individual or entity named above. If you are not the intended recipient, please be aware that any disclosure, copying distribution or use of the contents of this information is prohibited. If you have received this electronic transmission in error, please notify us by telephone at (617) 547-3830.

From: Robert Law [<mailto:rlaw@demaximis.com>]
Sent: Friday, September 20, 2013 1:32 PM
To: Ray Basso; Eugenia Naranjo; Stephanie Vaughn
Cc: John Connolly; Peter Israelsson; Willard Potter; Rafael Canizares; Rooni Mathew; Mike Barbara
Subject: Fwd: Lower Passaic River - 2378-TCDD surface mapping files

Provided as requested.

Robert Law, Ph.D.
de maximis, inc.
rlaw@demaximis.com
Voice: 908-735-9315
Fax: 908-735-2132

>>> Peter Israelsson <pisraelsson@anchorqea.com> 9/20/2013 1:24 PM >>>

James -

I am transmitting the requested information regarding the CPG's surface sediment 2378-TCDD mapping. Each attachment is explained below.

1. Shapefiles of 2,3,7,8-TCDD contaminant map for the LPR □
surf_TCDD_shapefiles_20130920_LPR.zip
 - a. "1995" surface (using the 1995-1999 dataset) □ surf_TCDD_1995_20130920_LPR.shp
 - b. "2010" surface (using the 2007-2012 dataset) □ surf_TCDD_2010_20130920_LPR.shp

/ Note: the 1995 surface applies 2007-2012 data outside of RM 0.95 to 6.85, due to data density limitations of the 1995-1999 dataset.

2. Areas of the groups (see 5/17/2013 mapping memo for definition details):

| Groups | Deposition Characteristics | Area | Area |
|----------|--|-------------------------|---------------------------|
| | | RM 1 to RM 7 (acres) | RM 0 to RM 7.5 (acres) |
| Group 1 | Shoals | 155 | 369 |
| Group 2 | No historical deposition | 21 | 21 |
| Group 3a | Little to moderate historical deposition; ≥ 1 ft erosion 1995 to 2012 | 14 | 14 |
| Group 3b | Little to moderate historical deposition; < 1 ft erosion 1995 to 2012 | 41 | 41 |
| Group 4 | High historical deposition | 137 | 208 |

3. Probability distributions and counts of contaminant data in each mapped dataset, by mapping group

a. ProbPlot_1995_vs_2010_data_by_mapped_group_20130920.pdf

Please let me know if you have any questions.

Have a good weekend,

Peter

Peter H. Israelsson, PhD

ANCHOR QEA, LLC

Note: new office address as of June 2013

10 Liberty Square, Sixth Floor
 Boston, MA 02109, USA
 T +1.857.991.1111, ext 1003
 M +1.617.686.4149

ANCHOR QEA, LLC | www.anchorqea.com

Please consider the environment before printing this email.

This electronic message transmission contains information that may be confidential and/or privileged work product prepared in anticipation of litigation. The information is intended for the use of the individual or entity named above. If you are not the intended recipient, please be aware that any disclosure, copying distribution or use of the contents of this information is prohibited. If you have received this electronic transmission in error, please notify us by telephone at (617) 547-3830.